

# PDR RID Report

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**Document** Presentation

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<b>Review</b>	SDPS	
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<b>Priority</b>	1	

**Section** P&DP Martin/Solomon

**Page**

**Figure Table**

**Category Name** Design-Planning/Design-Data Processing

**Actionee** HAIS

**Sub Category** Planning/Scheduling

**Subject** Transition from one production plan to another

## **Description of Problem or Suggestion:**

Graceful transition from one processing plan to another was described as a Release B feature. The work-around is to cancel the active plan and then initiate a new one. Can you cancel the active plan and leave the system in a predictable state, i.e., the state in which the new plan expects to find the system when it takes over? [Yes, obviously, if you let the old plan complete or quiesce, but this could waste (idle) considerable resources] [or you could cancel the old plan and then develop the new plan based on the now-known state of the system-even worse.]

## **Originator's Recommendation**

Move some part of plan transition to Release A or give more assurance that canceling and replacing plans is workable.

## **GSFC Response by:**

## **GSFC Response Date**

**HAIS Response by:** T. Suhrstedt

**HAIS Schedule** 3/24/95

**HAIS R. E.** J. Martin

**HAIS Response Date** 3/24/95

It is anticipated that there will be several options for transitioning between plans including: 1) canceling the old plan whereby all the queued and executing Data Processing Requests are canceled, 2) canceling the old plan, whereby the queued data processing requests are canceled and the executing requests are left executing, and 3) canceling the plan whereby queued and executing requests are untouched. The planning software will be capable of reconciling each of these options with the activation of a new plan.

The planning software maintains the lists of Data Processing Requests (associated with each production request) independently of a plan, (different plans could contain different estimated start and stop times for Data Processing Requests). The status of these requests is maintained independently of the plan, thus the status of the system is left in a predictable state on canceling a plan. Canceling a plan is not synonymous with a shutdown of the planning software.

The Planning subsystem scenario 10.2.4.2 in the SDPS Design Specification (DID 305) has been updated to describe graceful, completely automated transitions between plans. However, this is still anticipated to be an advanced (release B) capability. The discussion above indicates that with the enumerated options above, system state is predictable when a plan is canceled. Therefore, it is anticipated that this is a workable solution for Release A. This issue will be revisited during the detailed design phase prior to CDR to ensure that the transition between plans is consistent with efficient use of the processing resources.

**Status** **Closed**

**Date Closed** **4/21/95**

**Sponsor** **Kempler**

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**Attachment if any**

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